BlueHeron®

The Gene Synthesis Company

Custom Gene Synthesis

About

The Gold Standard in Gene Synthesis

Since 1999, Blue Heron has delivered tens of millions of base pairs of perfectly accurate genes to thousands of customers worldwide using its proprietary GeneMaker® multi-technology platform. As of August, 2010, Blue Heron became a wholly owned subsidiary of OriGene Technologies, Inc. Combining OriGene's complete collection of human cDNA clones with Blue Heron's gene synthesis capacity, we can provide a whole product solution for the molecular biology research community. We are 100% committed to serving our customers with high quality, strict confidentiality standards, and improved business efficiency.

Whether you need one gene or one thousand, the simplest sequence or comprehensive codon substitutions to create variants across hundreds of regions, Blue Heron can deliver. Beyond any other synthesis provider, Blue Heron provides an unmatched level of service and attention to detail to give you the assurance that your project will be delivered as ordered, on time, and with no surprises. Blue Heron is the only choice when you need a gene synthesis partner — not just a gene synthesis vendor.

Gene Synthesis

DNA insert

Blue Heron's patented GeneMaker® technology provides the capability to synthesize any DNA sequences for you, with few exceptions. Please contact our tech support team with any questions.

OriGene shuttle vectors

Express your insert in E. coli or mammalian cells. Low cost & multiple functional vectors available.

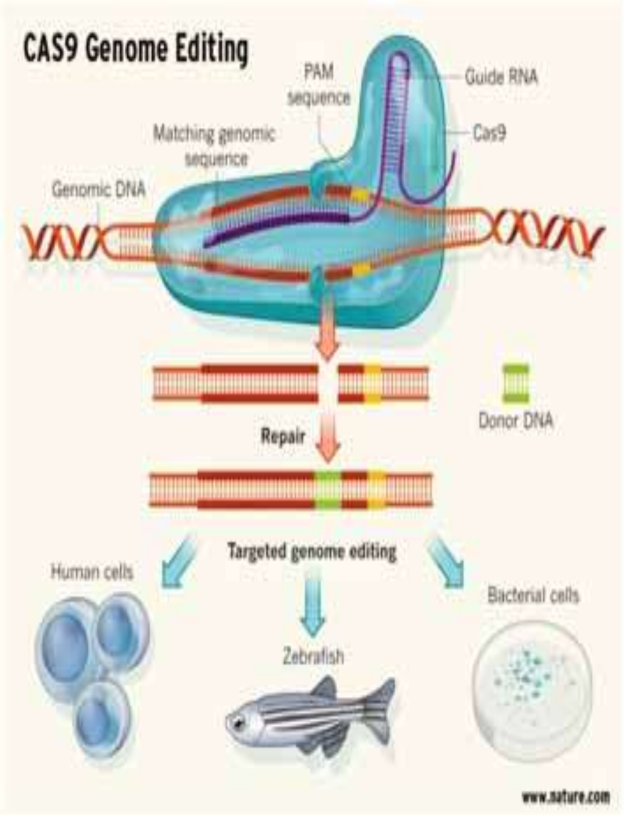
Customer provided vectors

Have your own vector? Please submit your vector sequence and features through our secure website after registering. Your vector is securely stored and can be used for future orders.

Blue Heron will require the physical vector once your order is placed.

CRISPR Cas9 Genome Editing

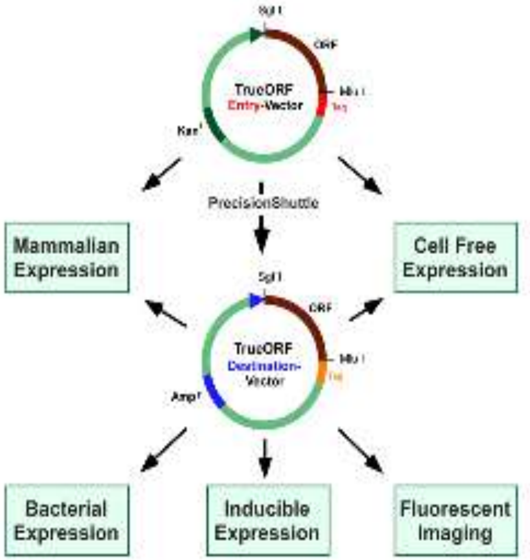
The latest tool in genome editing – CRISPR/Cas9 – allows for specific genome disruption and replacement in a flexible and simple system resulting in high specificity and low cell toxicity. The CRISPR/Cas9 genome editing system requires the co- expression of a Cas9 protein with a guide RNA vector expressed from the human U6 polymerase III promoter. With the protospacer-adjacent motif (PAM - the sequence NGG) present at the 3′ end, Cas9 will unwind the DNA duplex and cleave both strands upon recognition of a target sequence by the guide RNA. The functional cassette synthesized by Blue Heron in the rescue donor vector can then be inserted into the unwound DNA. The repaired genome will now express your desired sequence with or without tags.



Expression Vectors

Blue Heron Bio is pleased to offer OriGene’s affordable PrecisionShuttle™ system for easy subcloning into a large selection of proven destination vectors for a variety of downstream applications. Destination vector choices include:

❖Epitope tags (MYC, DDK, etc.) for protein purification detection
❖Fluorescent tags (GFP, RFP, YFP, etc.) for protein visualization
❖Various drug markers (neomycin, puromycin, etc.) for stable cell line establishment
❖Inducible expression (pTUNE)
❖E. coli expression vectors
❖Custom requests



For more information please visit
http://www.blueheronbio.com